

Work Order ID 145031

145031

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Friday, April 29, 2016 1:51:27 PM

Item ID: D412-673-011 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Electric Step Adaptation
 Start Date: 5/2/2016 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 5/12/2016 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: Em Date: 16/05/10 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr		DAS						
DSI 9556	A		6						
			9-89						

100 0.00
100
 DC Memo 0.00
 Doc.Control -USB or Paperwork - PHOTOCOPY BLUE FILE AND PRINT LABELS AS PER PPP D412-673-011
 CHG 003

110 Pick Kit 0.00
110
 Packaging Memo 0.00
 Packaging

120 QC3- Inspect Part Finish 0.00
120
 QC Memo 0.01
 Quality Control

MAY 10 2016

DAS
27
9-89

MAY 11 2016

DAS
6
9-89

MAY 10 2016

28
9-89

DAS
27
9-89

MAY 11 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date : _____		Step #: _____		QTY Effective : _____			MRB (QS1042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 145031***145031***

Page 2

Item ID: D412-673-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Electric Step Adaptation

Start Date: 5/2/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 5/12/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: _____	0.00							
130									
Packaging	Memo	0.01							
Packaging	Location : FG120								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.10							
Quality Control									

BAS
27
9-89
MAY 11 2016

MCS MAY 13 2016

MCS MAY 11 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :		Step #:		QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation				Disposition			
				Completed By			
				Lead hand / Supervisor Approval Verification			
				QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____					
Misidentified ☐	Past Due ☐						

Picklist Print

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Page 1

Work Order ID: 145031

145031

Parent Item: D412-673-011

D412-673-011

Parent Item Name: Electric Step Adaptation

Start Date: 5/2/2016

Required Date: 5/12/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:B AS PER ECN 11-564 JLM 11-05-11 VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2913 *D2913* Doubler DAS 27 9-89		Manufactured	No				Each	20.0000		1			DAS 6 9-89
									**				DAS 28 9-89
				<u>Location</u>				<u>Loc Qty</u>					
				ST013				20					
				106605				20					
D3620-1 *D3620-1* Bushing DAS 27 9-89		Manufactured	No				Each	11.0000		4			DAS 6 9-89
									**				DAS 28 9-89
				<u>Location</u>				<u>Loc Qty</u>					
				Mezz				11					DAS 6 9-89
				35001				11					
ALS7-1032-130 *ALS7-1032-130* Rivnut DAS 27 9-89	AELS8-1032-130	Purchased	No				Each	1,328.000		4			DAS 6 9-89
									**				DAS 28 9-89
				<u>Location</u>				<u>Loc Qty</u>					
				FG				50					DAS 6 9-89
				M128649				50					
				FP001				43					
				M128649				43					
				st549				1235					
				M128649				1235					

MAY 10 2016

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :		Step #:		QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation				Disposition			
				Completed By			
				Lead hand / Supervisor Approval Verification			
				QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____					
Misidentified ☐	Past Due ☐						

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Work Order ID: 145031

145031

Parent Item: D412-673-011

D412-673-011

Parent Item Name: Electric Step Adaptation

Start Date: 5/2/2016

Required Date: 5/12/2016

Start Qty: 1.00

Required Qty: 1.00

AN6-53 Purchased No Each 7.0000
AN6-53
 Bolt

**

DAS
0
9-89
DAS
28
9-89

BAS
27
9-89

Location	Loc Qty	Loc Code
ST332	7	
105289	3	
M128773	4	

2

AN310-6 Purchased No Each 30.0000
AN310-6
 Castellated Nut

**

DAS
0
9-89
DAS
28
9-89

BAS
27
9-89

Location	Loc Qty	Loc Code
ST331	30	
114523	10	
122459	20	

2

NAS1149D0332J Purchased No Each 1,186.000
NAS1149D0332.J
 Washer

**

DAS
0
9-89
DAS
28
9-89

BAS
27
9-89

Location	Loc Qty	Loc Code
CA	6	
m129682	6	
FP001	26	
m133988	26	
GA	60	
m132677	60	
ST260a	1000	
m134502	1000	
ST264	94	
m133988	94	

6

MAY 10 2016

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QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By 					
				Lead hand / Supervisor Approval Verification 					
				QC / QA Coordinator Approval 					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under Tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

Picklist Print

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Work Order ID: 145031

145031

Parent Item: D412-673-011

D412-673-011

Parent Item Name: Electric Step Adaptation

Start Date: 5/2/2016

Required Date: 5/12/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0663J

Purchased

No

Each

1,044.000

4

NAS1149D0663.J

Washer

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ST260

227

M131618

227

ST260a

500

M134634

500

ST263

266

M133134

89

M133769

12

M133812

6

M134360

159

ST269

51

M126334

51

Each

1,865.000

2

**

DAS
27
9-89

MS21042L3

Purchased

No

MS21042L3

Nut

Location

Loc Qty

Loc Code

FP001

100

m133790

100

GA

717

m133790

3

m134360

714

ST303

1048

m134039

12

m134360

436

m134634

600

MAY 10 2016

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____			DISPOSITION Rework Scrap Use-as-is Suspected Unapproved		AGAINST DEPARTMENT/PROCESS Skid-tube Machining Thermoforming Large Fab Cross tube Small Fab Finishing Composite Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier Engineering Quality Other					
Date :		Step #:			QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation					Disposition					
										Completed By
										Lead hand / Supervisor Approval Verification
										QC / QA Coordinator Approval
Root Cause Environment Design Doc/Data Equip/Tooling Handling/Pre Material Internal Transport Tribal Knowledge LOA Substation Past Expiry Date Misidentified No Re-verification Operator Offset/Setup Supplier Training Use for Testing Poor Information Rushing Product Improvement Process Improvement Manufacturing Process Past Due				FAULT CATEGORY Pressure/Forced Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Wave/Twist in Tube Marks/Chatter Temperature/Cure Set-up BOM/Route Broken/Damage/Defect Inspection Incomplete/Unqualified Contamination Countersink Cut Too Short Instructions Incomplete/Unclear Drill Holes Power Loss/Surge Folio/Program Grain Weld Wrong Stock Pulled Out of Sequence Off-set Mislabeled Fit/Function Misaligned/off center Positioned Wrong Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Drawing Finish Misread Turning Sequence						
OTHER :										

Picklist Print

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Work Order ID: 145031

145031

Parent Item: D412-673-011

D412-673-011

Parent Item Name: Electric Step Adaptation

Start Date: 5/2/2016

Required Date: 5/12/2016

Start Qty: 1.00

Required Qty: 1.00

MS24665-300

Purchased

No

Each

37.0000

MS24665-300

COTTER PIN

**

M134738

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

30

118234

30

ST288

7

M128812

7

MS24693-S272

Purchased

No

Each

92.0000

MS24693-S272

SCREW

**

2

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

41

M129682

41

GA

3

M126190

3

ST286

48

M130799

48

MS27039-1-08

Purchased

No

Each

273.0000

MS27039-1-08

Screw

**

2

MAY 10 2016

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

83

m128636

83

GA

73

125654

2

m128636

71

ST281

117

m134502

117

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐		AGAINST DEPARTMENT/PROCESS Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																																																																																																																					
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Picklist Print

Page 5

Friday, April 29, 2016 1:51:33 PM

Work Order ID: 145031

145031

Parent Item: D412-673-011

D412-673-011

Parent Item Name: Electric Step Adaptation

Start Date: 5/2/2016

Required Date: 5/12/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-11

Purchased

No

Each

183.0000

2

MS27039-1-11

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

20

125654

13

9662

7

ST280

163

124326

163

Each

25.0000

2

MS35489-35

Purchased

No

MS35489-35

Grommet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST269

25

m127306

25

Each

0.0000

1

DT8393-1

Manufactured

No

***DT8393-1*A**

Tool (Drill Jig)

DT8393-3

Manufactured

No

Each

0.0000

1

DT8393-3

Tool (Drill Jig)

DT8393-2

Manufactured

No

Each

0.0000

1

DT8393-2

Tool (Drill Jig)

D4398-1

Manufactured

No

Each

16.0000

4

D4398-1

Bushing

DAS
27
9-89

Location

Loc Qty

Loc Code

ST095

16

114056

16

DAS
28
9-89

DAS
28
9-89
MAY 10 2016

DAS
28
9-89

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Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D412-673 REV. C

REF CANADIAN STC: SH96-88

REF FAA STC: SR00563NY

REF EASA STC: EASA.IM.R.S.01303

PURPOSE:

THE PURPOSE OF THIS SERVICE INSTRUCTION IS TO ADD 4X D4398-1 BUSHINGS TO THE D412-673-011 ELECTRIC STEP ADAPTATION KIT, TO ENSURE COMPATABILITY WITH THE OEM ELECTRIC STEP.

PARTS LIST CHANGE:

QTY. -011	PART NUMBER	DESCRIPTION
X	D412-673-011	Electric Step Adaptation Kit

4	D4398-1	Bushing	ADD
---	---------	---------	-----

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)

DATE: 11.05.03
CERT. NO.: SH96-88
ISSUE NO.: 3

A	NEW ISSUE	AJS	11.05.03
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9556	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		BUSHING INSTALLATION	NTS
DATE	11.05.03	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

w/p 45031

Rm 10/05/10

MODIFICATION PROCEDURE:

IT IS ACCEPTABLE TO PRESS OUT THE QTY 4 BUSHINGS LOCATED IN THE STEP ARMS (PART No. BHT 212-030-309-001 ARM OR BHT 212-030-310-001 ARM). REPLACE THE OEM BUSHINGS WITH QTY 4 D4398-1 BUSHINGS. ENSURE THAT THE SHOULDER OF THE BUSHING IS FACING OUT AS SHOWN IN FIGURE 1. AT THE INSTALLER'S DISCRETION, THE D4398-1 BUSHING MAY BE INSTALLED USING LOCTITE 601 (OR EQUIVALENT TO MIL-R-46082) APPLIED TO ALL MATING SURFACES. IN THIS CONFIGURATION, THE D4398-1 BUSHINGS REPLACE THE AN960JD616 WASHERS.

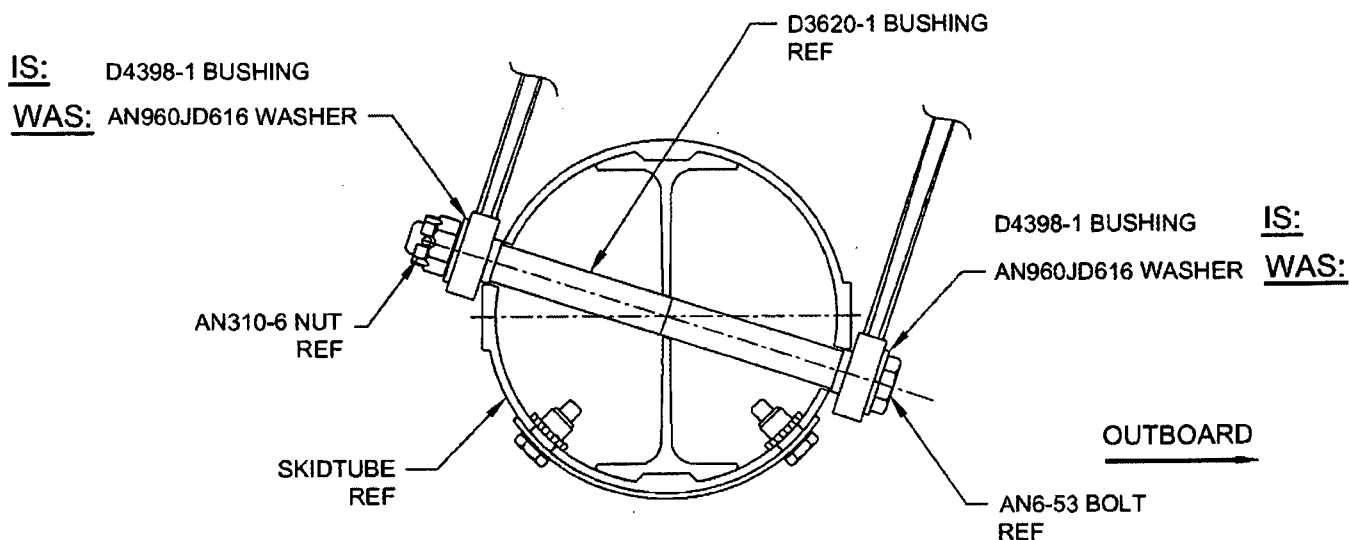


FIGURE 1: TYPICAL STEP INSTALLATION

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED <i>[Signature]</i> BY: D. SHEPHERD (DE # 02)	
DATE:	11.05.03
CERT. NO.:	SH96-88
ISSUE NO.:	3

DESIGN	AJS	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9556	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	BUSHING INSTALLATION	NTS
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REFERENCE ONLY

DAS
20
0.00

5.0 WEIGHT AND BALANCE

The weight added to the Skidtube by the D412-673-011 Electric Step Adaptation Kit is negligible.

6.0 PARTS LISTS

Qty -011	Part Number	Description
X	D412-673-011	Electric Step Adaptation Kit
1	D2913	Doubler
4	D3620-1	Bushing
4	ALS7-1032-130	Insert
2	AN6-53	Bolt (or AN6C53)
2	AN310-6	Castellated Nut (or AN310C6)
6	AN960JD10L	Washer
4	AN960JD616	Washer (or AN960C616)
2	MS21042L3	Nut
2	MS24665-300	Cotter Pin (or AN380C3-3)
2	MS24693S272	Screw
2	MS27039-1-08	Screw
2	MS27039-1-11	Screw
2	MS35489-35	Grommet
1*	DT8393-1	Tool
1*	DT8393-2	Tool
2*	DT8393-3	Pin

* Tools listed for reference only. Do not install.

ORIGINAL ONLY

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D412-673 REV. C

REF CANADIAN STC: SH96-88

REF FAA STC: SR00563NY

REF EASA STC: EASA.IM.R.S.01303

DAS
28
9-89

PURPOSE:

THE PURPOSE OF THIS SERVICE INSTRUCTION IS TO ADD 4X D4398-1 BUSHINGS TO THE D412-673-011 ELECTRIC STEP ADAPTATION KIT, TO ENSURE COMPATABILITY WITH THE OEM ELECTRIC STEP.

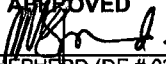
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AIRCRAFT CERTIFICATION
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DAO # 01-O-01

APPROVED

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DATE: 11.05.03
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REV.	DESCRIPTION	BY	DATE
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DRAWN	AJS		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9556	SHEET 1 OF 2
APPROVED		TITLE	SCALE
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